Catl battery pack

On June 23, CATL launched Qilin, the third generation of its CTP (cell-to-pack) technology. With a record-breaking volume utilization efficiency of 72% and an energy density of up to 255 Wh/kg, it achieves the highest integration level worldwide so far, capable of delivering a range of over 1,000 km in a breeze.

CATL has presented two standardised batteries and announced that it would build 1,000 battery swapping stations in China next year. The Chinese battery maker believes that battery swapping will cover one-third of EVs" energy needs by 2030. The chocolate battery packs 20# and 25# offiially go by the name of Choco-SEB (Swapping Electric Blocks).

Qilin is named after a legendary creature from China. The latest CATL post suggests that this integrated system can increase the energy density to 255Wh/kg for ternary battery systems (NMC, NMCX etc), and 160Wh/kg for LFP battery systems. Essentially removing the overheads of a module.

The 2025 CATL "6M"/E1A battery pack is expected to create massive disruption throughout EV markets, especially for Tesla. This new battery pack offers a net capability of 4% more than the preceding model, with a total capacity of 62.5kWh. Furthermore, it has reduced body mass by 1 kg, which further improves the car"s efficiency and response.

High-rate, fast-charging technology combined with the intelligent BMS strategy makes it possible to charge a battery to 80% in just five minutes. Thanks to advanced nickel-rich NCM chemistry material, silicon-doped lithium supplement technology, and innovative cell to pack (CTP) technology, the battery system energy density is improved to 265Wh/kg.

The general standard CATL high voltage battery box BC3 with unique cell-to-pack (CTP) technology, are lightweight and high energy density. The large capacity, ultra-safe lithium iron phosphate traction batteries are safe and reliable. The batteries are proven in over 400,000 Commercial EVs & HEVs around the world.

The battery pack in the 2024 AVATR 12 is the CATL Qilin, a Cell to Pack design and in this case using NMC chemistry. The battery pack has a total energy of 94.5kWh and is described "Adaptive to DC fast charging piles with charging voltage of 450 V~900 V".

CATL unveiled two Tectrans L series commercial vehicle battery packs, including a version that supports supercharging and another long-range version. The Tectrans L supercharging battery supports 4C charging speeds and can be charged to 60 percent in as little as 12 minutes, CATL said.

With highly integrated structure design, the groundbreaking CTP (cell to pack) technology has significantly increased the volumetric utilization efficiency of the battery pack, which has increased from 55% for the

first-generation CTP battery to 72% for the third

Today, CATL launched Qilin, the third generation of its CTP (cell-to-pack) technology. With a record-breaking volume utilization efficiency of 72% and an energy density of up to 255 Wh/kg, it achieves the highest integration level worldwide so far, capable of delivering a range of over 1,000 km in a breeze.

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